BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Certificate in Information Technology Pearson BTEC International Level 3 Subsidiary Diploma in Information Technology Pearson BTEC International Level 3 Foundation Diploma in Information Technology Pearson BTEC International Level 3 Diploma in Information Technology Pearson BTEC International Level 3 Extended Diploma in Information Technology
Unit number and title	**Unit 22: Introduction to Robotics and Automation**
Learning aim(s)	Learning aim A: Investigate the use of automation and robotics
Assignment title	Robotics and automation in industry and society
Assessor	
Issue date	
Hand in deadline	

Vocational scenario or context	You have recently started an internship at an independent software development company. The company develops bespoke apps and computer systems for other companies in a range of industries. The owner of the company is considering expanding and diversifying the company by entering the robotics and automation market. The owner wants you to investigate how robotics and automation are utilised in different industry sectors and in wider society, as well as the impact they can have.
Task 1	Write an evaluative report for the owner of the company in which you evaluate how and why robotics and automation are utilised to meet different needs, the benefits they can bring, and any associated risks and drawbacks. Your evaluation needs to cover: • the fundamental concepts of robotics and automation and their use to automate processes in the real world • the different components of automated systems and how they work • differences between physical robots and automated processes • levels of automation

	• how robotics, automation and the Internet of Things (IoT) are used in different industries and contexts to solve problems and meet needs • The wider considerations for individuals and organisations in relation to the adoption and use of robotics and automated systems including: obenefits and drawbacks oethical considerations. You should support your evaluation with specific real-world examples. Your evaluation should be logically structured and use correct technical terms.
Checklist of evidence required	Completed report

Criteria covered by this task:	
Criteria reference	To achieve the criteria you must show that you are able to:
A.D1	Evaluate the impact of robotics and automation on different industries and society.
A.M1	Analyse the benefits, drawbacks and wider considerations of robotics and automation and how they impact different industries and society.
A.P1	Describe how robotics and automation are used in industry and society to meet specific identified needs.
A.P2	Explain the associated benefits, drawbacks and wider considerations of robotics and automation in different industries and society.

Sources of information to support you with this Assignment	
Other assessment materials attached to this Assignment Brief	